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- 66. A kiosk, as in claim 45, where the application is a customized application that is customized to a user.
- 67. A kiosk, as in claim 45, where the application program is an access to the Internet.
 - 68. A kiosk, as in claim 67, where the kiosk charges the user for the access to the Internet.
- 69. A kiosk, as in claim 67, where the access to the internet provides a communication link between one or more second users through one or more designated servers.
- 70. A kiosk, as in claim 69, where the communication link includes any one or more of the following: voice, video, electronic mail, data, and web page sharing.
 - 71. A kiosk, as in claim 45, where the application is a communication application.
 - 72. A kiosk, as in claim 71, where the communication application includes any one or more of the following: a telephone call, an electronic mailing, a teleconferenence, a fax transmission, a training session, a search for information on the network, and a web based collaboration.
 - 73. A kiosk, as in claim 45, where the application is a service application.
- 74. A kiosk, as in claim 73, where the service application includes any one or more of the following: an advertisement, a service charge, and a request for service.
 - 75. A kiosk, as in claim 45, where the application is providing information in a tangible medium.
 - 76. A kiosk, as in claim 45, where the application configures the display to render a web page that contains multimedia information that includes any one or more of the following: a schedule, a menu, a seating arrangement, a map, one or more soft keys, a form, an advertisement, and an image of a product.

77. A kiosk, as in claim 45, where the device subset includes a printer and the application configures the printer to print any one of the following: a receipt, a check, a web page, a coupon, a ticket, a pass, and a form.

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- 78. A kiosk, as in claim 45, where device subset includes any one or more of the following: a microphone, a speaker, and a phone set that are configured by the application to become a public telephone.
- 79. A kiosk, as in claim 45, where the device subset includes a microphone, a speaker, and a video conferencing system that are configured by the configuration set to become a video conferencing terminal.
- 80. A kiosk, as in claim 45, where the device subset includes a camera that is configured by the application to take pictures of one or more of the following: the user, a scene surrounding the kiosk, and a document.
 - 81. A kiosk, as in claim 45, where the device subset includes a media writer that writes to a storage media and the application configures the media writer to write any one of the following: music, software, text, graphics, educational material, and multimedia information.
- 82. A kiosk, as in claim 45, where the device subset includes a media reader capable of reading a recorded media, where the media reader is configured by the configuration set to input information recorded on the recorded media.
- 83. A kiosk, as in claim 82, where the recorded media is any one of the following: a memory on an electronic card, a computer diskette, a magnetic tape, a CD ROM, and a memory storage device.
 - 84. A kiosk, as in claim 45, where the control program is a Java applet.
- 85. A kiosk, as in claim 84, where the one or more of the driver programs has a Java program that communicates through an interprocess communication with a device API that controls one or more of the local driver programs.
- 86. A kiosk, as in claim 45, where one or more of the embedded control functions is an ActiveX control.

88. A method of configuring a kiosk, comprising the steps of:

accessing one or more configuration sets of one or more files from a
network, at least one of the files having an embedded control function;

executing the embedded control function to invoke an API function that selects a subset of local driver APIs and communicates with the subset to control one or more peripheral devices of the kiosk to perform an application associated with the configuration set.

89. A kiosk comprising:

one or more peripheral devices means for performing a device action; one or more local program means for driving each of the peripheral device means;

a browser means for fetching one or more configuration sets of one or more files from the network through one or more network connections, one or more of the configuration sets having at least one embedded control function means, one or more of the configuration sets being associated with a kiosk application, the embedded control functions means for selecting a local subset of one or more of the local programs and for communicating with the local subset to cause the local programs in the local subset to drive a device subset of one or more of the peripheral device means to perform device actions to configure the kiosk to perform the kiosk application.

90. A server comprising:

one or more connections to a network, one or more requests received through the connections;

one or more configuration sets having one or more files and at least one embedded control function, one or more of the configuration sets being associated with an application, the embedded control functions capable of selecting a driver subset of one or more of the driver programs and communicating with the driver subset to cause the driver programs to control a device subset of one or more of the local kiosk functions to configure one or more kiosks to perform the application.

91. A server, as in claim 90, where the request comes from one or more of the kiosks to be configured.

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- 92. A server, as in claim 90, where the request comes from an agent computer.
- 93. A server, as in claim 90, where the configuration sets include any one of the following: a remote device control, a remote message display, a file transfer, and an agent/client collaboration.
 - 94. A server, as in claim 90, where one or more of the embedded control functions are a system monitoring program for determining operating status of one or more of the local kiosk functions of one or more kiosks.

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- 95. A server, as in claim 94, where the operating status is used to determine any one or more of the following: maintenance required for one or more of the peripheral devices, maintenance history for one or more of the peripheral devices, which application files to serve on the network to respond to one or more of the requests, and marketing information about one or more kiosk users.
- 96. A server, as in claim 94, where the operating status determines which configuration sets the server will serve on the network.
 - 97. A server, as in claim 90, where the configuration sets comprise one or more HTML files having zero or more hypertext components.
- 98. A server, as in claim 90, where the application is a financial application.
 - 99. A server, as in claim 98, where the financial application includes any one or more of the following: providing a user with financial information, opening an account, dispensing cash, paying bills, applying for loans, making deposits, applying for a mortgage, making a loan payment, making a mortgage payment, getting financial advice, trading one or more capital assets, and obtaining assistance from an agent.
- 35 100. A server, as in claim 90, where the application is a customized application that is customized to a user.
 - 101. A server, as in claim 90, where the application program is an access to the internet through one or more kiosks that the configuration set configures.

- 102. A server, as in claim 101, where the access to the internet provides a communication link between one or more second users through one or more designated servers.
- 103. A server, as in claim 90, where the application is a communication application.
- 104. A server, as in claim 103, where the communication application includes any one or more of the following: a telephone call, an electronic mailing, a teleconference, a fax transmission, a training session, a search for information on the network, and a web based collaboration.
 - 105. A server, as in claim 90, where the application is a service application.

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- 106. A server, as in claim 105, where the service application includes providing any one or more of the following: an advertisement, a service, and a service charge.
- 20 107. A server, as in claim 90, where the application is providing information to a user using a kiosk configured by the configuration set.
 - 108. A server, as in claim 90, where one or more of the embedded control functions is capable of causing one or more of the kiosks to request one or more of the configuration sets.
 - 109. A method, performed by a server on a network, comprising the steps of:
- receiving a request from one or more kiosks connected to the network;

sending, to the kiosk, one or more configuration sets having one or more files and at least one embedded control function, one or more of the configuration sets being associated with an application, the embedded control functions capable of selecting a driver subset of one or more of the driver programs and communicating with the driver subset to cause the driver programs a device subset of one or more local kiosk functions to configure the kiosk to perform the application.

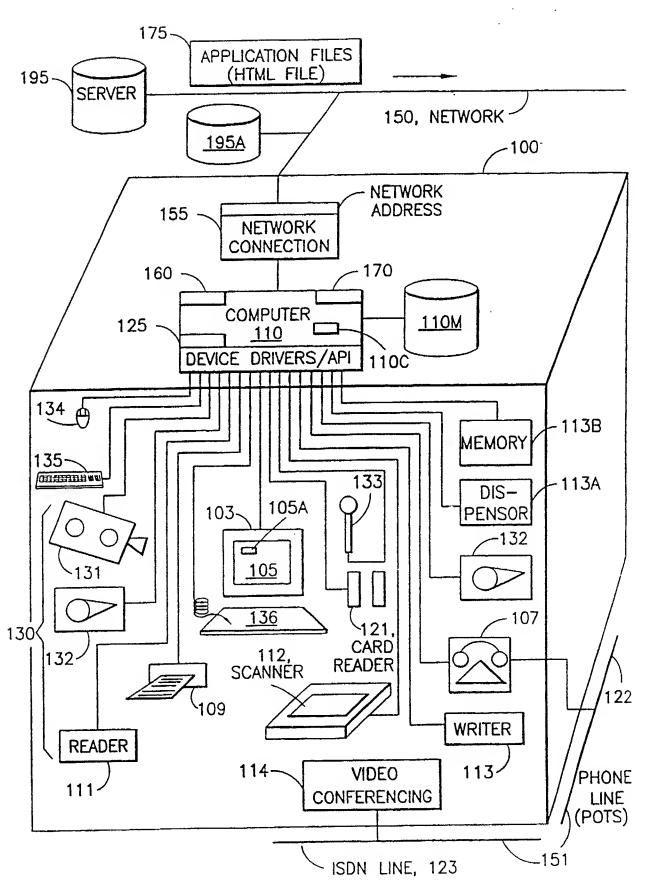


FIG.1

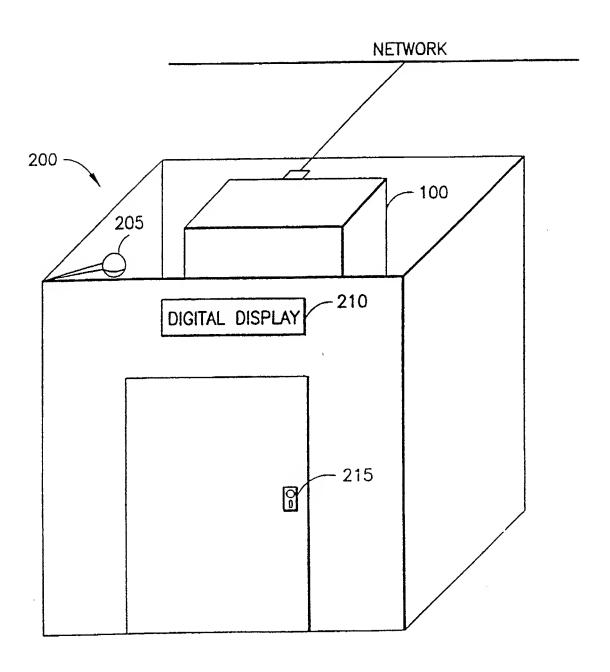


FIG.2

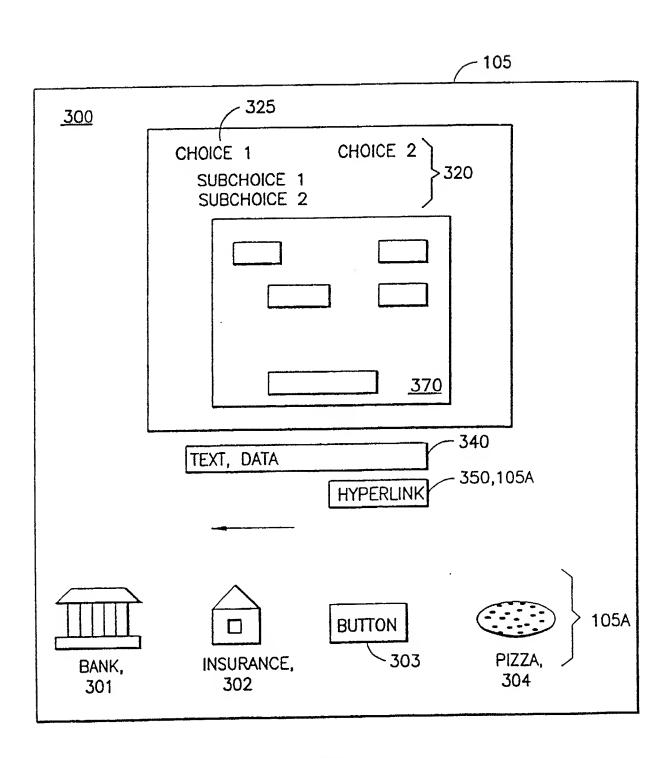


FIG.3

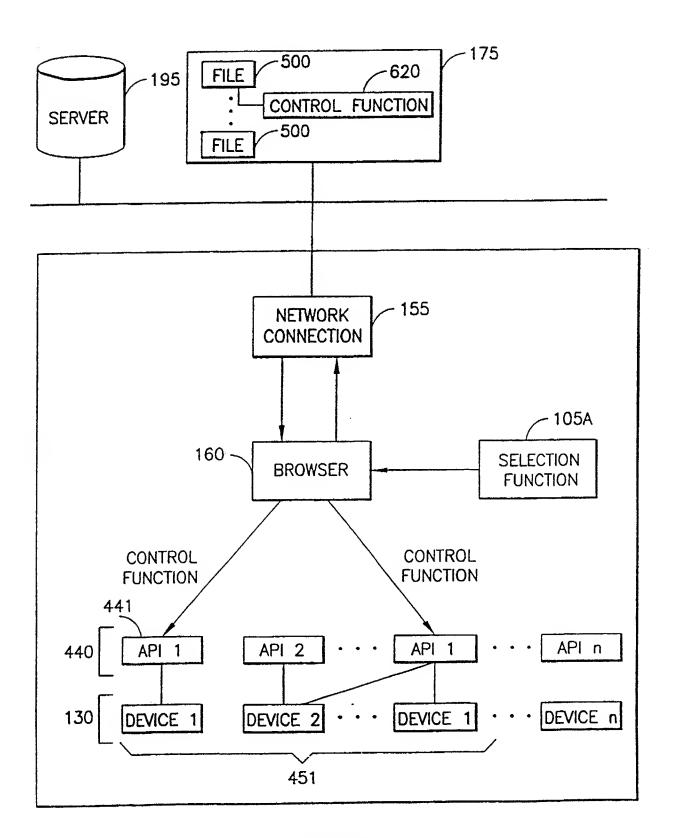
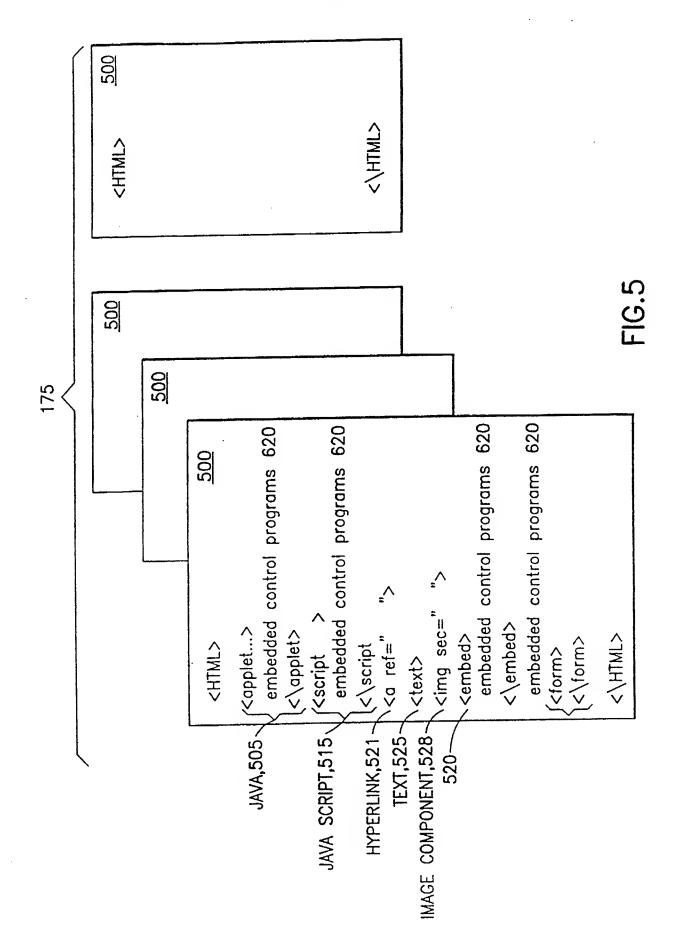
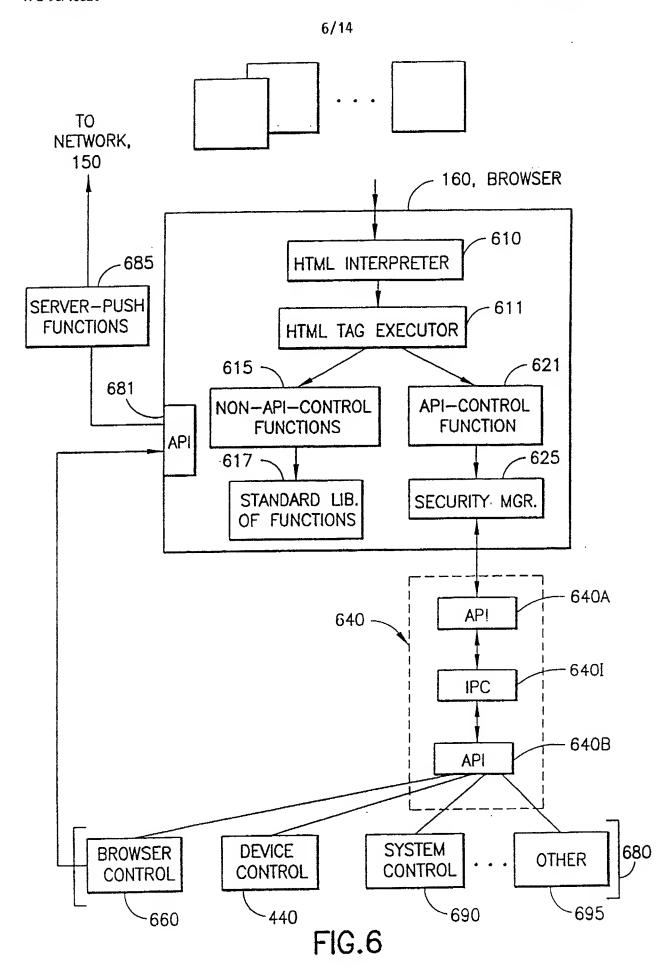


FIG.4





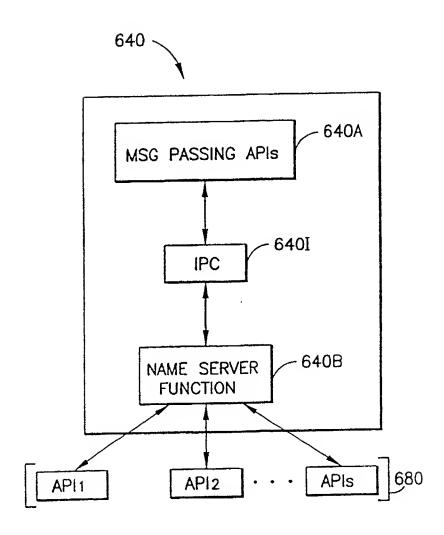


FIG.6A

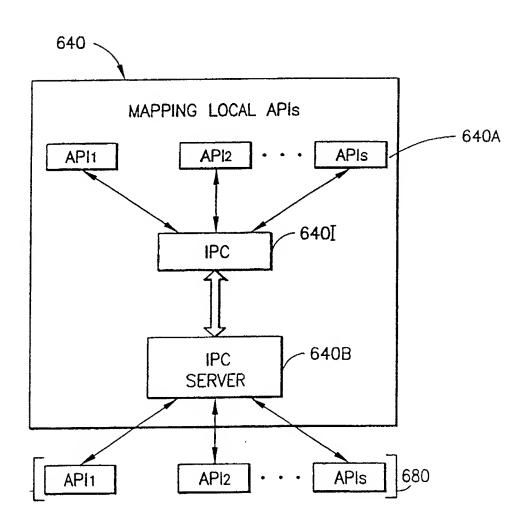
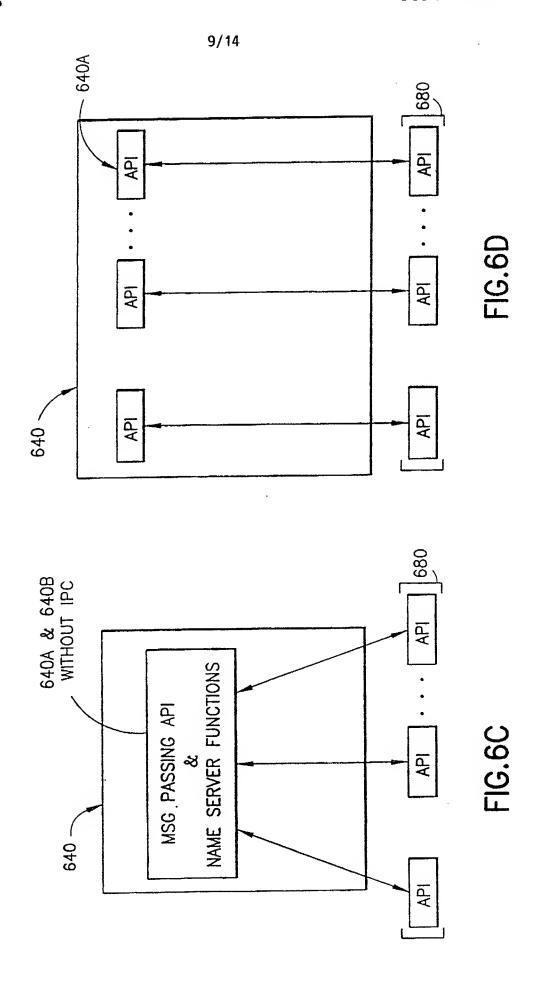


FIG.6B



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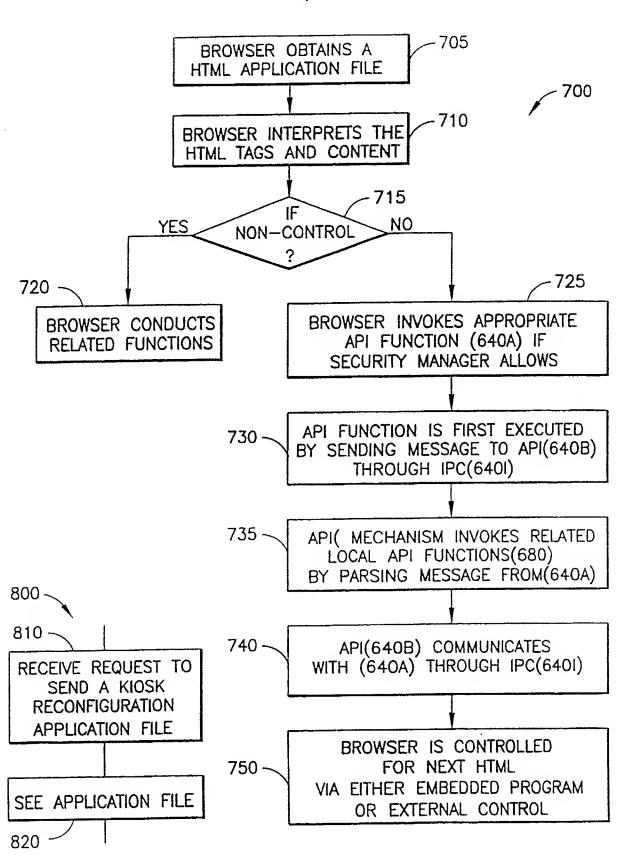


FIG.8

FIG.7

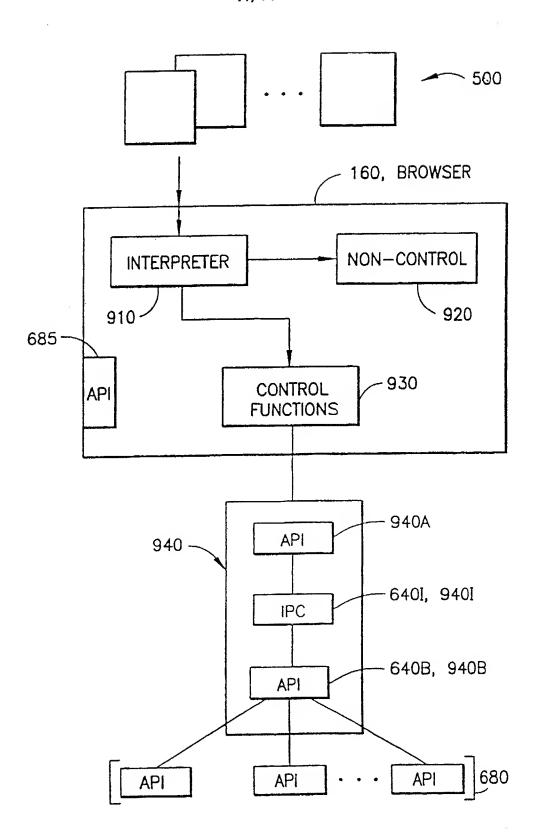
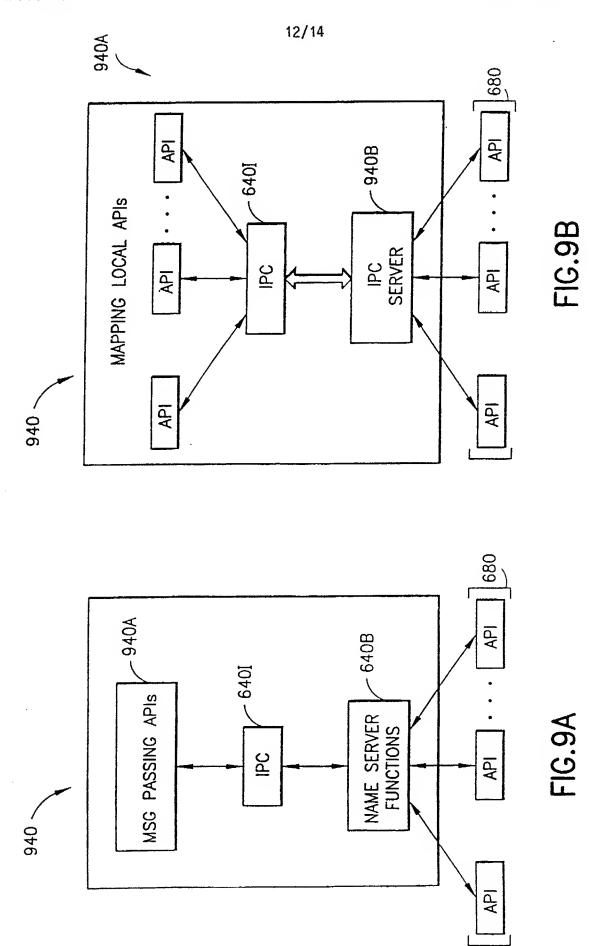
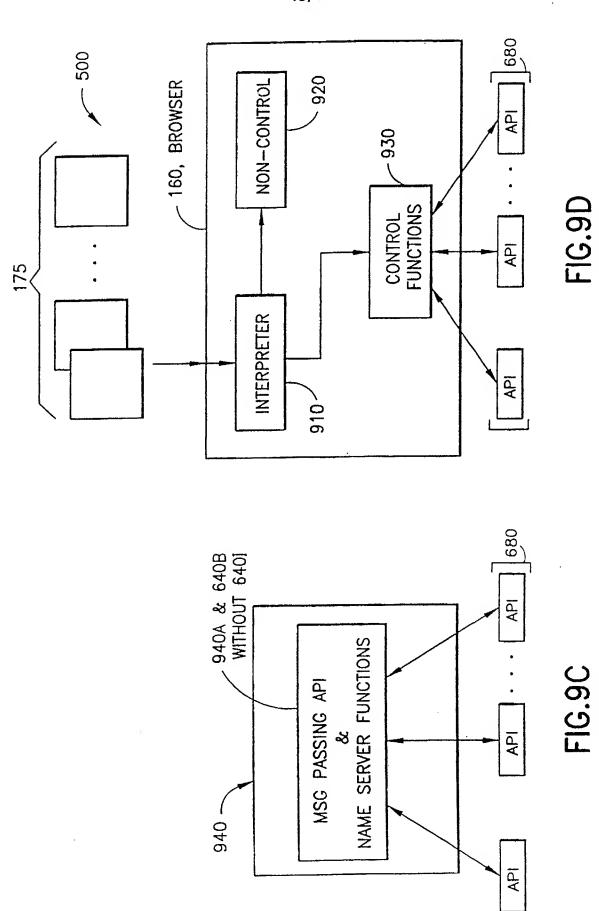


FIG.9





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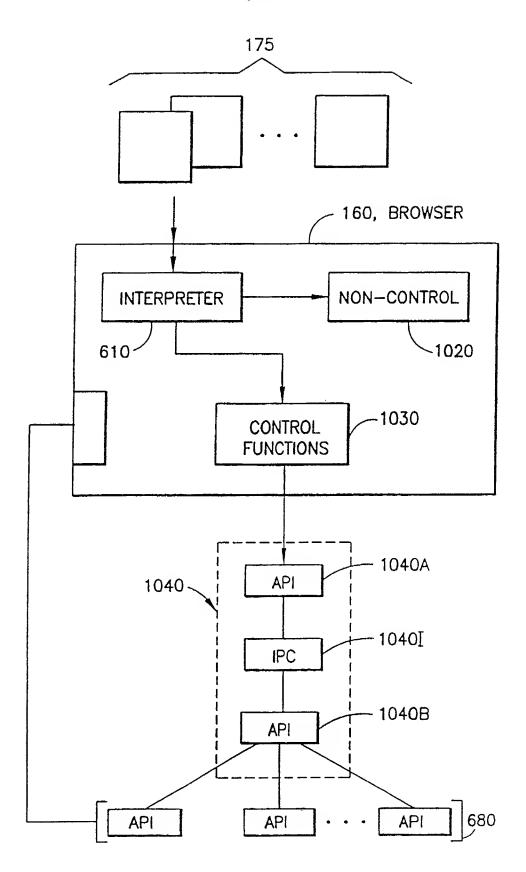


FIG.10

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- (74) Agent: DAVIES, Simon, Robert; IBM United Kingdom Limited, Intellectual Property Dept., Hursley Park, Winchester, Hampshire SO21 2JN (GB).
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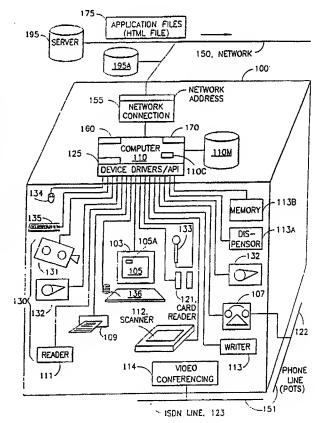
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

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(54) Title: KIOSK AND SERVER CONNECTED TO COMPUTER NETWORK

(57) Abstract

A server system (195) is connected to a plurality of kiosks (100) by a network (150), e.g., the Internet, corporate or government intranets, extrancts, etc. A kiosk has one or more predetermined input/output devices (130) (e.g. displays, keyboards, paper printers, telephones, etc.) and one or more driver programs (110) (local APIs) for each of the input/output devices (130). The displays (103) are used to present one or more graphical user interfaces (105) and video images to a user of the kiosk (100). The kiosk (100) has a browser (160) which it uses to obtain material from the server (195). The server (195) has one or more application files (175) or configuration scts that it serves to the kiosks (100). The configuration sets are application specific (an application is a use for which the kiosks are configured or reconfigured). One or more of the files in the configuration sets include one or more embcdded control programs that are used to control the local APIs for the devices on the kiosk. In this way, the devices are controlled to configure the kiosk to perform the application.



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Inter tional Application No P(:/GB 98/00650

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| X | see column 1, line 22-39 | 77,78, 81-83, 88-91, 93-96, 98,99, |
| | see column 2, line 51 - column 3, line 5 | 103-107 |
| | see column 4, line 6-15 see column 5, line 22 - column 7, line 40 see column 9, line 21 - column 14, line 25 see column 16, line 19 - column 20, line 9 see column 22, line 49 - column 26, line | |
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| Box I | Observations where certain claims were found unsearchable (Continuation of item 7 of installed) |
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| 2. | Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
| 3. | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

- 1. Claims 1,2,4(as depending on claims 1 and 2),5(as depending on claims 1 and 2),6(aspect a),7,12(as depending on claims 1 and 2 and limited to aspect a), 13-14(as depending on claims 1 and 2),15,16,17(aspect a),20(as depending on claims 16 and 17 aspect a),21,22,25,26(as depending on claims 16 and 17 aspect a),33(as depending on claims 16 and 17 aspect a),38(as depending on claims 16 and 17 aspect a), 38-39(as depending on claim 17 aspect a),44,45,46(aspect a),50-52,55,58,59,60(aspect a),61,62(aspect a),64,65,71,72(aspect a),73-75,77,78,81-83,88-91,93,94,95(aspect a),96,98,99,103,104(aspect a),105,109. Apparatus and method for a server and a kiosk, the server and the kiosk comprising a configuration set and an embedded function using an operating status for determining peripherals maintenance history at the kiosk.
- 2. Claims 1,3,4-5(as depending on claim 3),6,7,8-14(as depending on claim 3), 16,20(as depending on claim 16),21,24,45,51,57,90,92. A server and a kiosk comprising means for communicating with an agent computer.
- 3. Claims 1,2,5(as depending on claims 1 and 2),6(aspect b),7,9(as depending on claims 1 and 2),16,17(aspect a),20(as depending on claims 16 and 17 aspect a),21,23,26(as depending on claims 16 and 17 aspect a),27(aspect b),30(as depending on claims 16 and 17 aspect a),45,51,56,59,60(aspect b),66,90,94,95 (aspect b),100.

 A server and a kiosk comprising means for determining kiosk user marketing information.
- 4. Claims 1,2,8(as depending on claims 1 and 2),10(as depending on claims 1 and 2),11,12(as depending on claims 1 or 2 and limited to aspect b),16,17(aspect a),18(as depending on claims 16 and 17 aspect a),19,29(as depending on claims 16 and 17 aspect a),31(as depending on claims 16 and 17 aspect a),32, 33(as depending on claims 16 and 17 aspect a, and limited to aspect b),40(as depending on claims 16 and 17 aspect a)41,42-43(as depending on claims 16 and 17 aspect a),45,47-49,62(aspect b),63,67-71,72(aspect b),76,84-87,90,97, 101-103,104(aspect b).

 A server and a kiosk for communicating HTML configuration files.
- 5. Claims 16,17(aspect a),17(aspect b),18 as depending on claim 17 aspect b), 19,20(as depending on claim 17 aspect b),21-25,26(as depending on claim 17 aspect b),27,28-31(as depending on claim 17 aspect b),32,33-35(as depending on claim 17 aspect b),36-37(as depending on claim 17 aspect b),36-37(as depending on claim 17 aspect b),38-40(as depending on claim 17 aspect b),41,42-43(as depending on claim 17 aspect b),45,46(aspect b),79,80. A kiosk having a camera.
- 6. Claims 45,51,53,54.
 A kiosk comprising means for applying a fee to select functions.

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Inter Const Application No PC+/GB 98/00650

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